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"Soldiers On Point for the Nation"

The Army Perspective on Non-lethal Weapons

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Army NLW History

- **1991-1995:**
 - Army S&T Development Program
 - Established Army Systems Manager
 - Supply USMC with NLW for Somalia
 - DOD Senior Steering Group Member

- **1996-Present:**
 - Integral Part of Joint NLW Program
 - Develop Army-unique NLW
 - Field NLW for SASO/Peacekeeping Operations
 - Initiated Army Integrated Concept Team



Non-lethal Weapons - OSD/CSA Guidance

- **Defense Planning Guidance (FY01-05)**
 - “To ensure the US military has the ability to effectively apply nonlethal modes of weaponry, **DoD components must continue to improve on and expand their present nonlethal weapons programs.** Current efforts to study and understand the use of nonlethal weapons from the strategic to the tactical levels must be integrated into all future military and interagency concepts and operations.”
- **Army Vision**
 - ***The Army* - strategic dominance across the entire spectrum of operations.**
 - The spectrum of likely operations describes a need for land forces... for a variety of missions. ... *The Army* will be responsive and dominant ***at every point*** on that spectrum...



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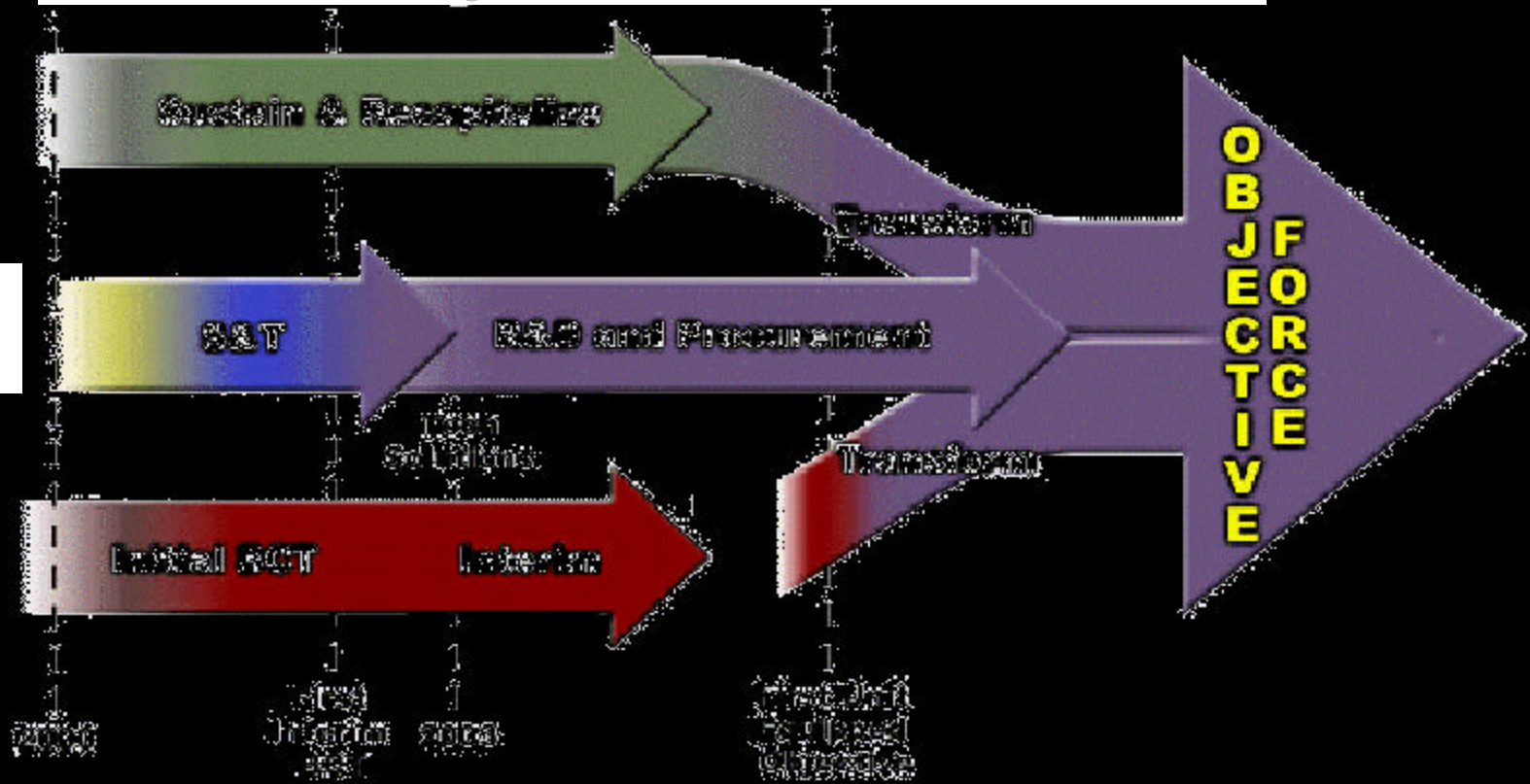
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The Army Transformation

Legacy
Force

Objective
Force

Interim
Force



*... Responsive, Deployable, Agile, Versatile, Lethal,
Survivable, Sustainable*



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Concept for Non-lethal Capabilities in Army Operations

- Use NLW to **delay, disrupt, or degrade** threat forces, combat functions, and facilities in pursuit of operational and tactical objectives with the **minimum force necessary**.
- Provide the commander **additional options** for:
 - **Operational offensive measures:** Riot control, interdiction of tactical/strategic resources, conflict intervention, hostage retrieval, MOUT.
 - **Defensive operations:** Force Protection
- **Required Capabilities**
 - Affecting Human Capabilities
 - Defeating Materiel Systems
 - Providing Security and Surveillance
 - Attacking Materiel Support Systems/Infrastructure

TRADOC PAM 525-73,
Dec 96



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"Baseline" Army NLW Fielding Plan

CSA approved - Nov 97

Interim Solution (FY95-FY99)

- **Satisfy Urgent Operational Requirements**
- **Field Interim Contingency Stock - COTS**
- **Develop and Type Classify NLW**
 - **Joint NLW Program**
 - **Army Soldier Enhancement Program (SEP)**

Long Term Solution (FY00->)

- **Field NL Capability Sets**
- **Field rheostatic NLWs to support:**
 - ~~Army Vision 2010~~
 - ~~Army After Next~~



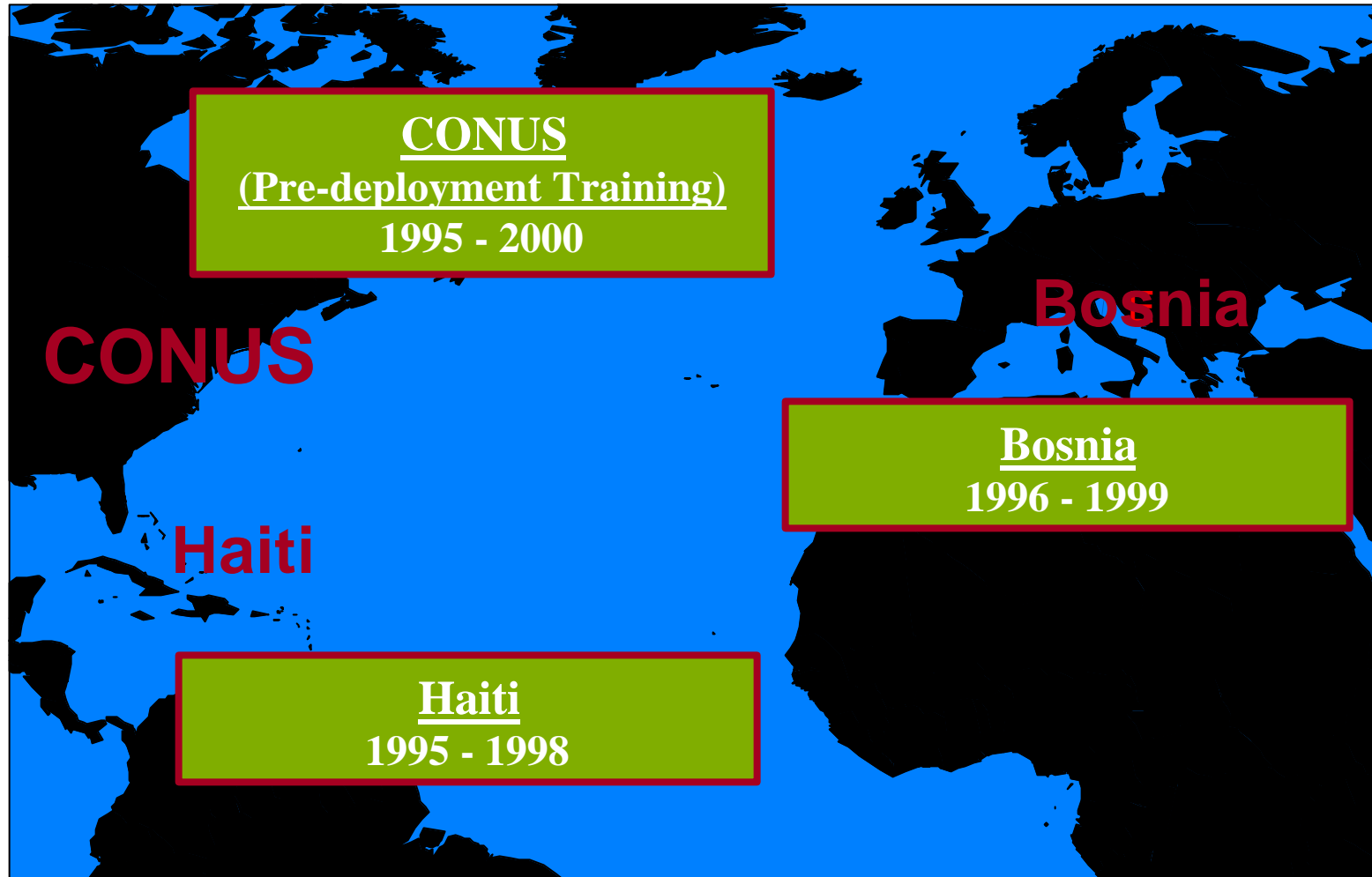
**Interim,
Legacy and
Objective
Forces**



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Army Urgent Non-lethal Mmunition Fielding



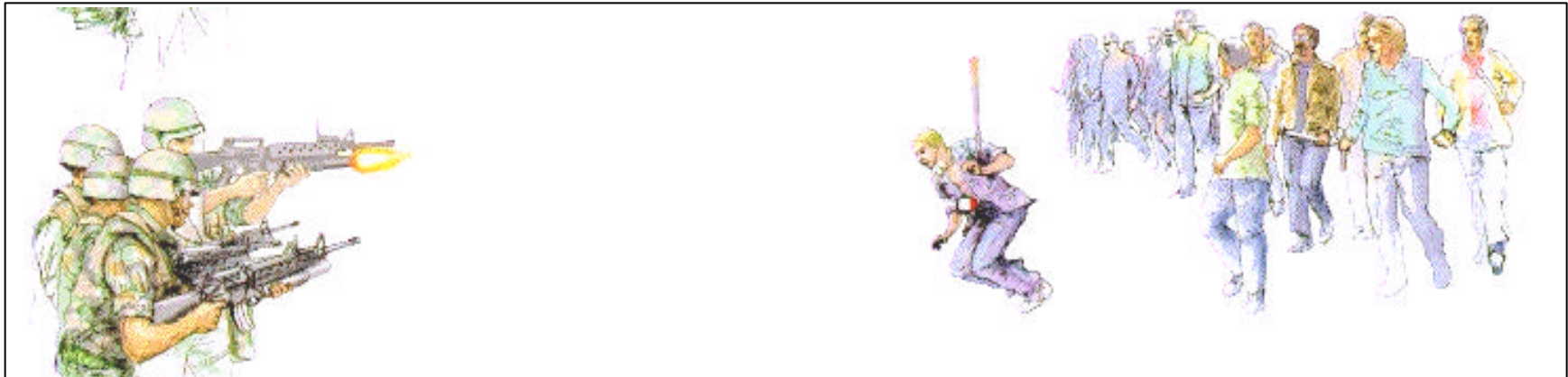


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Non-Lethal Capability Set (NLCS) for Peacekeeping/SASO Operations

- **Current USA/USMC concept for fielding a Peacekeeping/SASO Capability**
- **Company Level Augmentation Capability**
 - Rapidly deployable
 - Forward and CONUS based
 - Mix of Force Protection/NLW Munitions
- **Army Will Purchase 30 Sets - 5 per year (FY00-05)**
 - Accelerated Fielding of One NLCS to Task Force Falcon
- **Will Play in Joint Contingency Force - Advanced Warfighting Experiment**



"The Army--Persuasive in Peace, Invincible in War"



Army Future for NLW

Near Term

- **Continue to develop tactical NLW**
 - Extend Range; Effects; Improve Certainty of Results
- **Develop new requirements through the JMAA**
- **Develop technology for longer-range NLW**
 - For use across spectrum of warfare

Far Term

- **Develop full-spectrum DTLOMS/DOTML-P**
- **Include NLW Capability into our normal TO&E**
- **Integrate NLW Capability into our Objective Force**

Develop a true Rheostatic Weapon Capability



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Future Army NLW Programs

Objective Individual Combat Weapon

- Next Generation Individual Soldier Weapon
- Objective ORD Requirement: "A family of non-lethal munitions shall be developed for application across the spectrum in the continuum of conflict."
- JNLWD funds NL round development





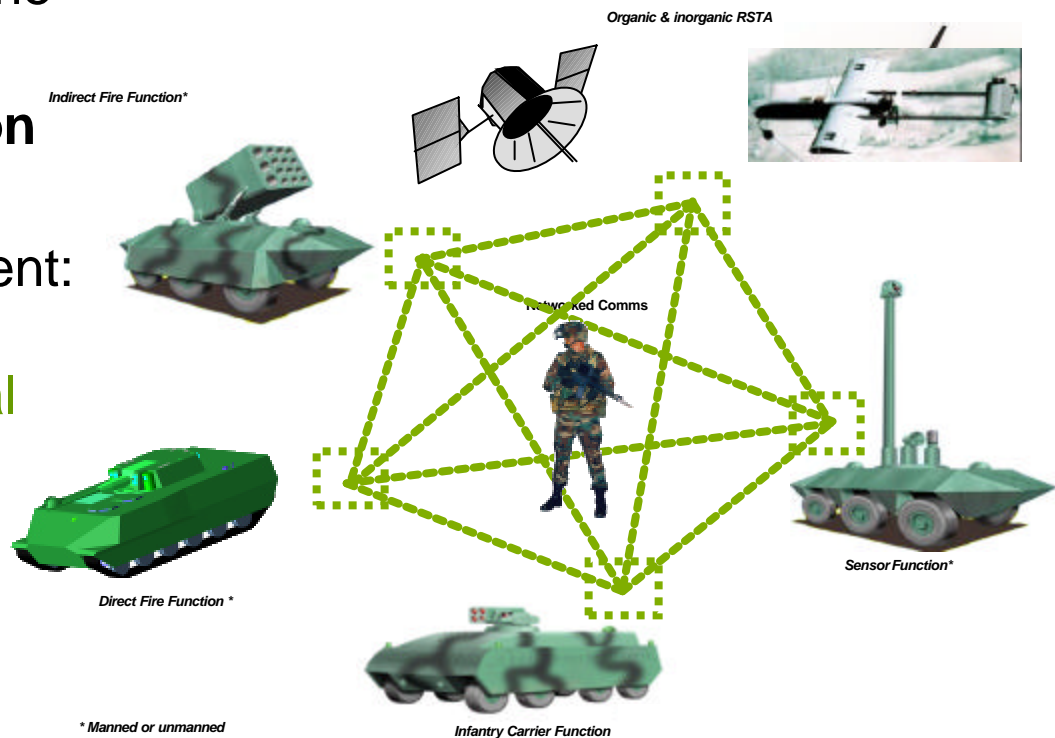
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Future Army NLW Programs

Future Combat Systems Munitions/Armament

- Family of Systems for the Army Objective Force
- #1 Army Modernization Priority**
- Mission Needs Statement:
FCS "will...include precision and non-lethal capabilities to minimize collateral damage."
- Army/DARPA funded development program
- FUE FY12

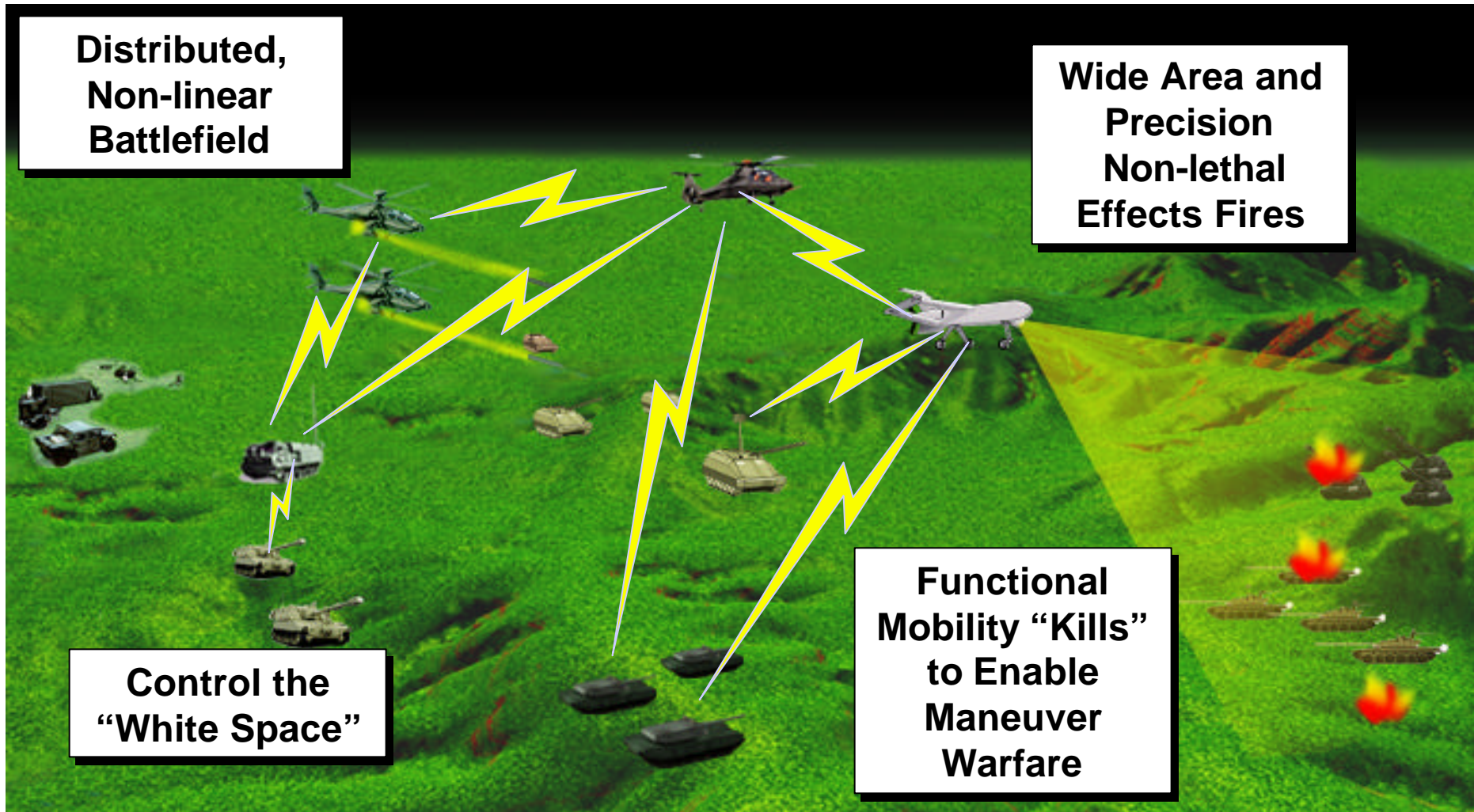




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Non-Lethal Fires for the Objective Force





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Future NLW Pathway

Fiscal Year

98

00

02

04

06

08

10

12

14



**Vision-supported
Full spectrum relevance/use
Army Objective Force/FCS**

Joint MAA

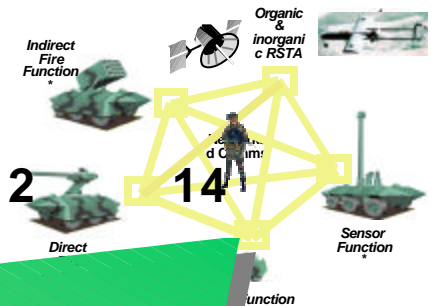
Joint NL Vision

**Tactical/Operational NLW - includes DEW
Possible Strategic Options
TO&E inclusion**

**Militarized NL Weapons
Tactical (USA Capability Set)
Joint Service RDA**

**COTS NL Weapons
Tactical/Force Protection**

- **USMC Capability Set**
- **USA Contingency Stock**





Summary

- **Continue a joint, coordinated and focused effort**
- **Present - rapidly fielding Peacekeeping/SASO capability**
- **Future - Integrated capability across the spectrum of warfare**

The Army--Persuasive in Peace, Invincible in War





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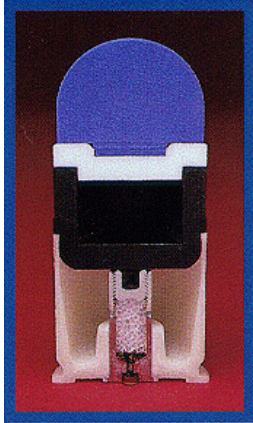
Backup Slides



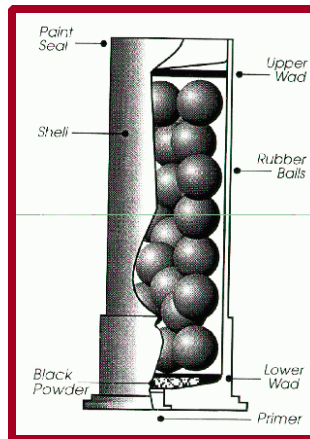
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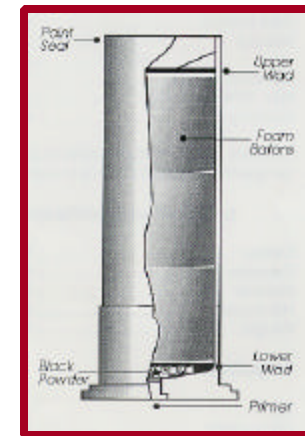
NLW Contingency Stockpile: FY98-00



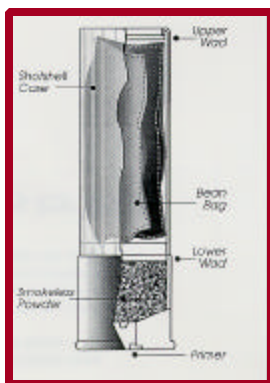
40mm XM1006 NL Ctg
(Sponge Grenade)



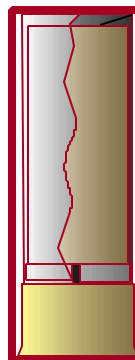
40mm Multiple
Rubber Balls Ctg



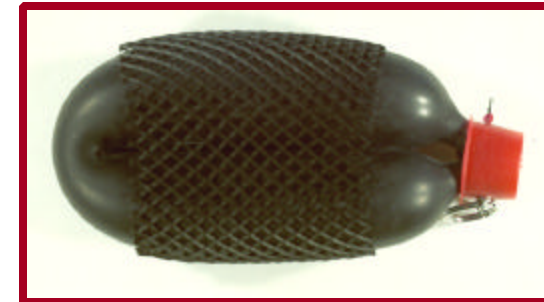
40mm Multiple
Foam Batons Ctg



12 Gauge Bean Bag



12 Gauge Flash Bang



Hand Held Personal
Dye Marker Grenade

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Army-unique Non-lethal Programs

- **40mm NL M1006 Cartridge “Sponge Grenade”**

- TC - 2QFY99



- **M95 Muzzle Launched Munitions**

- TC (Limited Rate Production)- 4QFY99



- **12 Gauge Point/Area NL Munitions**

- TT/OT Completed - 4QFY99



- **M84 Stun Grenade**

- TC - 1QFY99





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NON-LETHAL CAPABILITY SET

(representative items)

Soldier Protection Items

- Ballistic & Non-Ballistic Body, Face and Shin Shields
- Batons
- Portable Bullhorns
- High Intensity Search Lights
- Disposable Forearm/Ankle Cuffs
- Individual (OC) Pepper Spray Dispensers

Nonlethal Munitions

- 12 Gauge Point, Area & Flash Bang
- 40mm Sponge Grenade
- 40mm (Area) Munition
- 5.56mm Muzzle Launched, Area
- Stun Grenade
- Modular Crowd Control Munition (MCCM)
- Hand Thrown Dye marker

Training Items

- Riot Baton Training Suit
- Inert Individual Training Dispenser

Other Items

- 12 Gauge Shotguns
- Light Vehicle Obscurant Smoke Systems (LVOSS) M-305
- Portable Vehicle Arresting Barrier (PVAB)
- Mid Size riot Control Dispenser
- Large Riot Control Dispenser (M33A1)
- Resupply Quantity of (OC) Pepper Spray

Set Composition will change as new Non-lethal Weapons become available



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Sample NLCS Items

NEW 40mm Smokeless Powder Rounds



#15 Stinger Grenade



Positive Locking Expandable Batons



Paulson Riot Faceshields



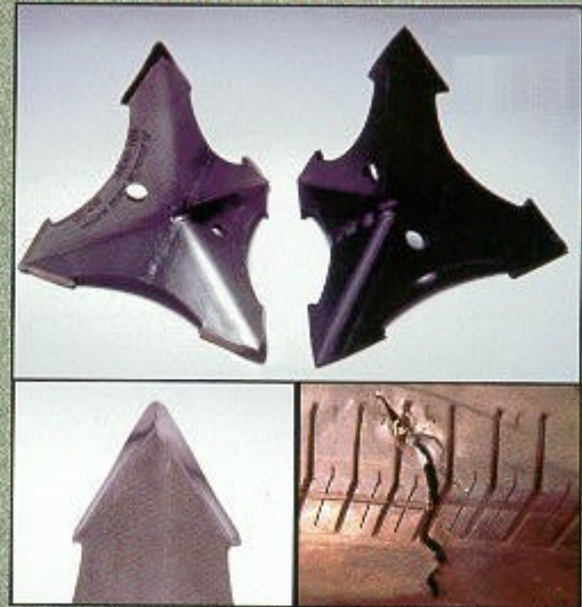
Jamco Riot Shields



First Defense Duty Aerosols



Aardvark Tactical USMC Caltrops



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